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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,445	03/30/2004	Bilal Ahmad	CIS03-48(8084)	3348
47654	7590	08/09/2007	EXAMINER	
DAVID E. HUANG, ESQ. BAINWOOD HUANG & ASSOCIATES LLC 2 CONNECTOR ROAD SUITE 2A WESTBOROUGH, MA 01581			BOCURE, TESFALDET	
		ART UNIT	PAPER NUMBER	
		2611		
		MAIL DATE		DELIVERY MODE
		08/09/2007		PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/812,445	AHMAD, BILAL	
	Examiner Tesfaldet Bocure	Art Unit 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 March 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-34 is/are pending in the application.
 - 4a) Of the above claim(s) 26-33 is/are withdrawn from consideration.
- 5) Claim(s) 4-25 and 34 is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 30 March 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 2/7/05
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-25 and 34, drawn to Mitigating interference among communication signals from a first pair of interconnections and second pair of interconnections, classified in class 375, subclass 285.
 - II. Claims 26-33, drawn to mitigating interference by selecting one of the communication filter from the different communication filters classified in class 375, subclass 229.
2. The inventions are distinct, each from the other because of the following reasons: Because these inventions are distinct for the reasons given above and acquire a separate status in the art as shown by their classifications, search required for Group I is not required for Group II, search required for Group II is not required for groups I, therefore, restriction for examination purposes as indicated is proper.
3. During a telephone conversation with Mr. David E Huang on July 26, 2007 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-25 and 34. Affirmation of this election must be made by applicant in replying to this Office action. Claims 26-33 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

4. Applicant is reminded to cancel the unelected claims in response to this office action.

Drawings

5. The drawings are objected to because "X2= X" in figure 2 should be amended to read as ---X2= -X; and X2= -X in figure 3 should be amended to read as X2=X. See page 14, lines 12-13 and page 15, lines 298-29 respectively for figures 2 and 3.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency.

Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Information Disclosure Statement

6. The Information Disclosure Statement (IDS) received on February 7, 2005 has been considered by the Examiner and the initialed copy (one page) of the IDS is attached with this correspondence.

Specification

7. The abstract of the disclosure is objected to because the title of the invention, "METHODS AND APPARATUS TO MITIGATE CROSS-TALK INTERFERENCE," should be deleted. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

8. The following is a quotation of the first paragraph of 35 U.S.C. 112:
- The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
9. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed "---to mitigate among other communication signals---," in claim 1 reads as if the claimed subject matter includes other communication which non-differential other than the once claimed and disclosed. Shouldn't the claimed subject matter be amended to read that the "the other

communication signal, "be other than the non-differential signal on a second pair of interconnects?

10. Claims 2 and 3 are inherently rejected as being dependent on the rejected base claim.

Allowable Subject Matter

11. Claims 4-25 and 34 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent numbers 6,226,331 and 7,154,902 and US patent Publication Numbers 2002/0178319 and 2004/0128595 issued to Gambuzza, Sikdar, Sanchez-Olea and Schoenborn et al. respectively and eeProduct Center, by the title "MultipointLVDS line drivers support AdvancedTCA Clock distribution" by Stephan disclose a plurality of line drivers for communicating differential signals of plurality of differential lines.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000:

T.Bocure

Tesfaldet Bocure
Primary Examiner
Art Unit 2611

